

## Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

**Sample ID:** RA-QD02-0019

**PI:** Tomoki Nakamura

**Type and date of analysis performed:**

XRD Jan/28/2011~ Feb/3/2011

FE-SEM, FE-EPMA Feb/19/2011~ Feb/28/2011

**Elements or phases identified:** (Mg, Si, olivine, pyroxene, aromatic carbon, etc.)

XRD : Ol, Pl

FE-SEM : Ol, Pl

FE-EPMA : Si, Ti, Al, Fe, Mn, Mg, Ca, Na, K, P

**Contaminant phases identified:** (Al, SUS, carbon particles, etc.)

N/A

**Sample handling:**

XRD

Attached to carbon fiber with resin.

FE-SEM, FE-EPMA

Exposed in atmosphere.

Polished by M cross

C-coated (20 nm)

**State of sample pre-analysis:**

Attached to carbon fiber with resin. (XRD)

Polished section with resin embedded (FE-SEM, FE-EPMA)

**State of sample post-analysis:**

Attached to carbon fiber with resin. (XRD)

Polished section with resin embedded, C-coated (FE-SEM, FE-EPMA)

N<sub>2</sub> hold in sample holder.

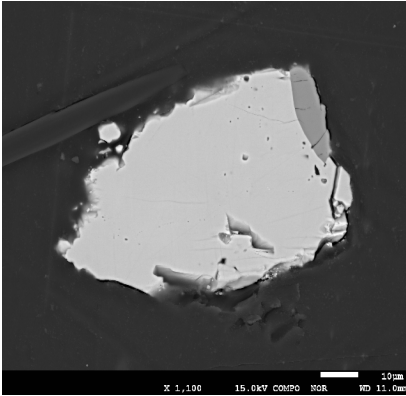
**Analysis data Notes:** (summary of the attached analysis data and/or images)

See attached sheets.

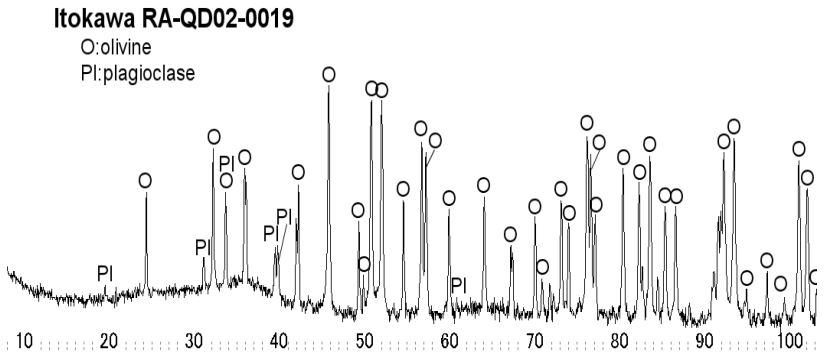
# RA-QD02-0019

Analysis S-XRD (polish) FE-SEM FE-EPMA  
 Present status Putted butt with some SIMS spots

FE-SEM/BSE



S-XRD



FE-EPMA

| wt%   | Olivine n=5O1 1 sigma | LPx n=0 .Px 1 sigma | HPx n=0 1Px 1 sigma | Plagio n=2Pl 1 sigma |
|-------|-----------------------|---------------------|---------------------|----------------------|
| SiO2  | 37.30                 | 0.26                |                     | 65.31 0.12           |
| TiO2  | 0.01                  | 0.03                |                     | 0.07 0.02            |
| Al2O3 | 0.00                  | 0.01                |                     | 20.62 0.04           |
| FeO   | 26.55                 | 0.29                |                     | 0.26 0.00            |
| MnO   | 0.48                  | 0.06                |                     | 0.00 0.00            |
| MgO   | 36.14                 | 0.25                |                     | 0.05 0.01            |
| CaO   | 0.00                  | 0.01                |                     | 2.26 0.02            |
| Na2O  | 0.01                  | 0.01                |                     | 9.55 0.15            |
| K2O   | 0.00                  | 0.00                |                     | 0.85 0.07            |
| Cr2O3 | 0.01                  | 0.01                |                     | 0.00 0.00            |
| NiO   | 0.01                  | 0.01                |                     | 0.01 0.01            |
| P2O5  | 0.04                  | 0.06                |                     | 0.08 0.11            |
| SO3   | 0.02                  | 0.02                |                     | 0.01 0.02            |
| Total | 100.57                | 0.37                |                     | 99.05 0.08           |

SUM

Comment

|               |       |      |
|---------------|-------|------|
| Olivine (Fa#) | 29.18 | 0.32 |
| LPx(Fs#)      |       |      |
| LPx(Wo#)      |       |      |
| LPx(En#)      |       |      |
| HPx(Fs#)      |       |      |
| HPx(Wo#)      |       |      |
| HPx(En#)      |       |      |
| Pl(O#)        | 4.91  | 0.32 |
| Pl(An#)       | 10.99 | 0.09 |
| Pl(Ab#)       | 84.10 | 0.23 |